

=> s l9 and l8
 L10 3 L9 AND L8

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.36	317.45

FILE 'REGISTRY' ENTERED AT 23:00:15 ON 07 NOV 2004
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5
 DICTIONARY FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

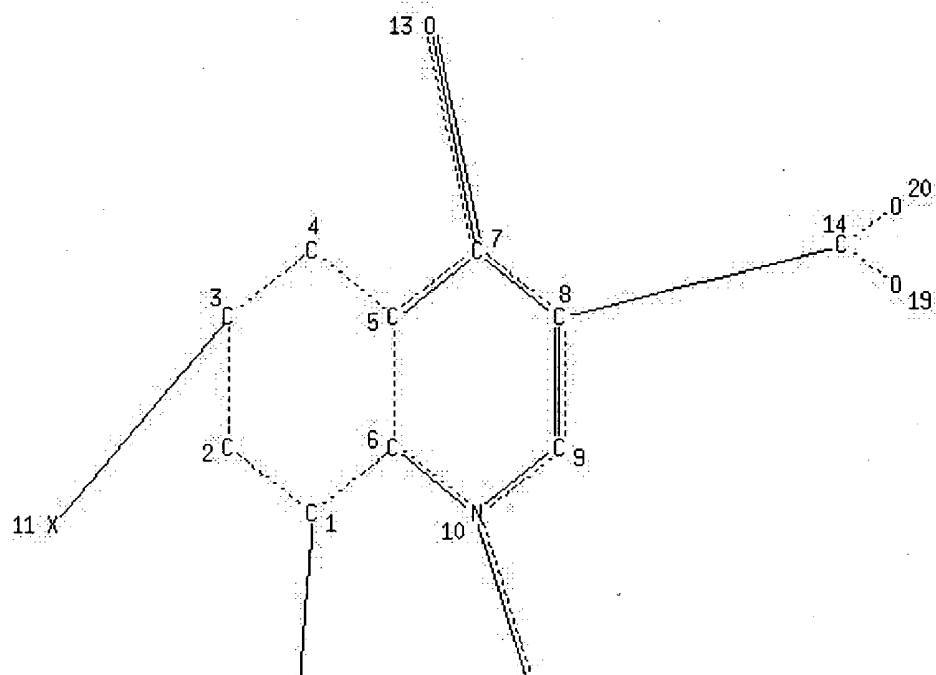
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

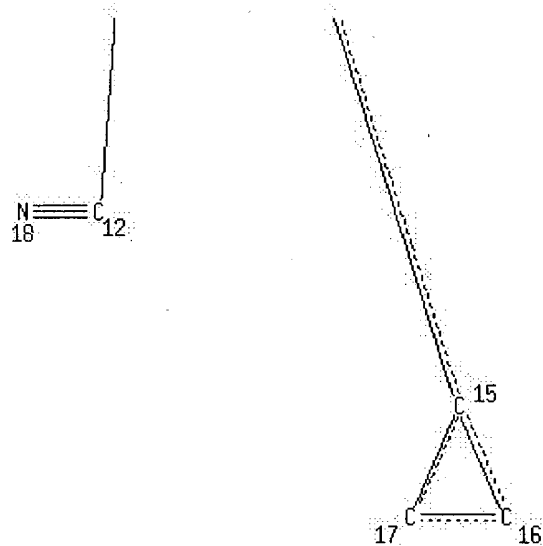
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 L11 STRUCTURE UPLOADED

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 L11 IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

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 L11 HAS NO ANSWERS
 L11 STR



Page 1-A



Page 2-A

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
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NSPEC	IS R	AT	15

NSPEC IS R AT 16
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 NSPEC IS C AT 19
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 MLEVEL IS CLASS AT 11 12 13 14 18 19 20
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

=> s l11

SAMPLE SEARCH INITIATED 23:02:11 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 4 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 6 TO 266
 PROJECTED ANSWERS: 4 TO 200

L12 4 SEA SSS SAM L11

=> s l11 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 23:02:16 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 89 TO ITERATE

100.0% PROCESSED 89 ITERATIONS 48 ANSWERS
 SEARCH TIME: 00.00.01

L13 48 SEA SSS FUL L11

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	156.26	473.71

FILE 'HCAPLUS' ENTERED AT 23:02:20 ON 07 NOV 2004
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FILE COVERS 1907 - 7 Nov 2004 VOL 141 ISS 20
FILE LAST UPDATED: 6 Nov 2004 (20041106/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d his

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FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004

L4 12 S L3

FILE 'REGISTRY' ENTERED AT 22:58:25 ON 07 NOV 2004

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 19 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 22:59:56 ON 07 NOV 2004

L8 31 S L7/RCT
L9 4 S L3/PREP
L10 3 S L9 AND L8

FILE 'REGISTRY' ENTERED AT 23:00:15 ON 07 NOV 2004

L11 STRUCTURE UPLOADED
L12 4 S L11
L13 48 S L11 FULL

FILE 'HCAPLUS' ENTERED AT 23:02:20 ON 07 NOV 2004

=> s l13/rct

24 L13
2674061 RCT/RL
L14 8 L13/RCT
(L13 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 22:56:26 ON 07 NOV 2004)

FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004

L4 12 S L3

FILE 'REGISTRY' ENTERED AT 22:58:25 ON 07 NOV 2004

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 19 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 22:59:56 ON 07 NOV 2004

L8 31 S L7/RCT
L9 4 S L3/PREP
L10 3 S L9 AND L8

FILE 'REGISTRY' ENTERED AT 23:00:15 ON 07 NOV 2004

L11 STRUCTURE UPLOADED
L12 4 S L11
L13 48 S L11 FULL

FILE 'HCAPLUS' ENTERED AT 23:02:20 ON 07 NOV 2004

L14 8 S L13/RCT

=> s 114 and 110

L15 3 L14 AND L10

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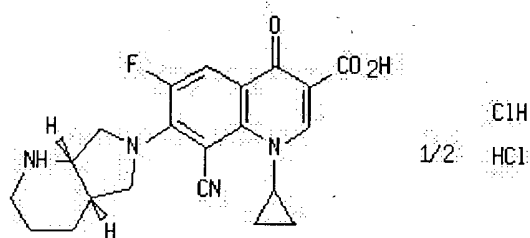
L15 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citings
References

ACCESSION NUMBER: 2000:366037 HCAPLUS
DOCUMENT NUMBER: 133:4647
TITLE: Semihydrochloride of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
INVENTOR(S): Himmeler, Thomas; Rast, Hubert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854357	A1	20000531	DE 1998-19854357	19981125
CA 2351714	AA	20000602	CA 1999-2351714	19991115
WO 2000031077	A1	20000602	WO 1999-EP8778	19991115
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 9915684	A	20010814	BR 1999-15684	19991115
EP 1133495	A1	20010919	EP 1999-955995	19991115
EP 1133495	B1	20021009		
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TR 200101443	T2	20010921	TR 2001-200101443	19991115
JP 2002530408	T2	20020917	JP 2000-583905	19991115
AT 225790	E	20021015	AT 1999-955995	19991115
ES 2181488	T3	20030216	ES 1999-955995	19991115
PT 1133495	T	20030228	PT 1999-955995	19991115

AU 759769	B2	20030501	AU 2000-12716	19991115
NZ 511863	A	20030530	NZ 1999-511863	19991115
NO 2001002532	A	20010702	NO 2001-2532	20010523
PRIORITY APPLN. INFO.:			DE 1998-19854357	A 19981125
			WO 1999-EP8778	W 19991115
OTHER SOURCE(S):	CASREACT	133:4647		
GI				



AB The title compd. (I), useful as a medical and veterinary bactericide, shows good water soly. (19 wt.%). I is produced by reaction of 7-halo-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid with (1S,6S)-2,8-diazabicyclo[4.3.0]nonane in the presence of a base in one of the following diluents: (a) a C \geq 4 aliph. alc., (b) a mixt. of a C \geq 3 alc. with the polar aprotic diluent, N-methylpyrrolidone; (c) a mixt. of n-PrOH with DMF. I (m. 278-280°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

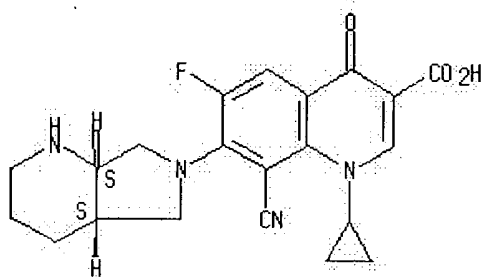
IT 271252-05-2P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); **PREP (Preparation)**; PROC (Process)
(semihydrochloride of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 271252-05-2 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-, hydrochloride (2:1) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



1/2 HCl

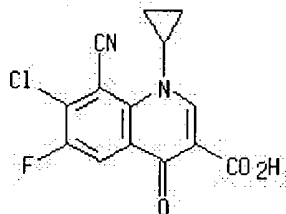
IT 117528-65-1, 7-Chloro-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid 151213-40-0

RL: **RCT (Reactant)**; RACT (Reactant or reagent)

(semihydrochloride of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 117528-65-1 HCAPLUS

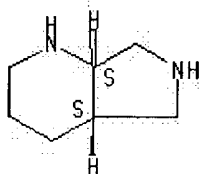
CN 3-Quinolinecarboxylic acid, 7-chloro-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



RN 151213-40-0 HCAPLUS

CN 1H-Pyrrolo[3,4-b]pyridine, octahydro-, (4aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L15 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text References

ACCESSION NUMBER: 2000:366035 HCAPLUS
 DOCUMENT NUMBER: 133:4645
 TITLE: Crystal modification B of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
 INVENTOR(S): Himmeler, Thomas; Hallenbach, Werner; Rast, Hubert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854355	A1	20000531	DE 1998-19854355	19981125
CA 2351707	AA	20000602	CA 1999-2351707	19991115
WO 2000031076	A1	20000602	WO 1999-EP8776	19991115
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 9915682	A	20010814	BR 1999-15682	19991115
EP 1133497	A1	20010919	EP 1999-959278	19991115
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
TR 200101444	T2	20020121	TR 2001-200101444	19991115

JP 2002530407

NZ 511862

AU 767890

NO 2001002461

US 6664268

T2 20020917

A 20030829

B2 20031127

A 20010518

B1 20031216

JP 2000-583904

NZ 1999-511862

AU 2000-16517

NO 2001-2461

US 2001-856670

DE 1998-19854355

WO 1999-EP8776

19991115

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A 19981125

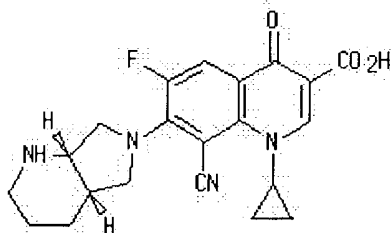
W 19991115

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

CASREACT 133:4645

GI



I

AB The title compd. in crystal modification B (I), useful as a medical and veterinary bactericide, is stable during extended storage without conversion to the amorphous form or any other crystal modification, and is less hygroscopic than the amorphous form of the compd. I is produced either (a) by reaction of 7-halo-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid with (1S,6S)-2,8-diazabicyclo[4.3.0]nonane in the presence of a base in a mixt. of EtOH and a polar aprotic diluent such as N-methylpyrrolidone, DMF, or sulfolane, or (b) by heating an unknown modification of the compd. in the presence of a base in EtOH, n-PROH, iso-PROH, or a mixt. of one of these alcs. with one of the polar aprotic diluents named previously. I (m. 243-245°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

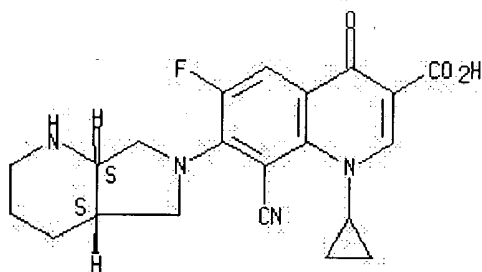
IT 195532-12-8P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); **PREP (Preparation)**; PROC (Process)
(crystal modification B of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



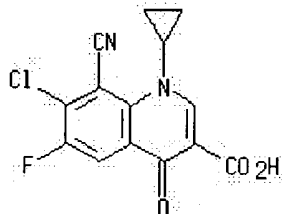
IT 117528-65-1, 7-Chloro-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid 151213-40-0

RL: **RCT (Reactant)**; RACT (Reactant or reagent)

(crystal modification B of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 117528-65-1 HCAPLUS

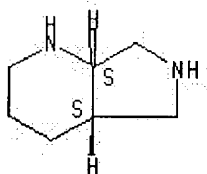
CN 3-Quinolinecarboxylic acid, 7-chloro-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



RN 151213-40-0 HCAPLUS

CN 1H-Pyrrolo[3,4-b]pyridine, octahydro-, (4aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L15 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1997:579724 HCAPLUS
DOCUMENT NUMBER: 127:248093
TITLE: 8-Cyano-1-cyclopropyl-7-(2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid derivatives

INVENTOR(S): Bartel, Stefan; Jaetsch, Thomas; Himmler, Thomas;
Rast, Hans-Georg; Hallenbach, Werner; Heinen, Ernst;
Pirro, Franz; Scheer, Martin; Stegemann, Michael;
Stupp, Hans-Peter; Wetzstein, Heinz-Georg

PATENT ASSIGNEE(S): Bayer A.-G., Germany; Bartel, Stefan; Jaetsch, Thomas; Himmeler, Thomas; Rast, Hans-Georg; Hallenbach, Werner; Heinen, Ernst; Pirro, Franz; Scheer, Martin; et al.

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

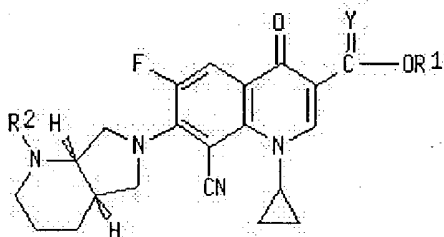
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RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
<u>DE 19633805</u>	A1	19970828	<u>DE 1996-19633805</u>	19960822
<u>ZA 9701507</u>	A	19970916	<u>ZA 1997-1507</u>	19970202
<u>CA 2247020</u>	AA	19970828	<u>CA 1997-2247020</u>	19970212
<u>AU 9717689</u>	A1	19970910	<u>AU 1997-17689</u>	19970212

AU 715341	B2	20000120		
EP 882049	A1	19981209	EP 1997-903260	19970212
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CN 1211984	A	19990324	CN 1997-192523	19970212
CN 1073112	B	20011017		
BR 9707606	A	19990727	BR 1997-7606	19970212
NZ 331468	A	20000228	NZ 1997-331468	19970212
JP 2000504734	T2	20000418	JP 1997-529755	19970212
IL 125444	A1	20010319	IL 1997-125444	19970212
RU 2173318	C2	20010910	RU 1998-117814	19970212
EP 1215202	A1	20020619	EP 2002-6519	19970212
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CZ 291251	B6	20030115	CZ 1998-2684	19970212
ES 2184060	T3	20030401	ES 1997-903260	19970212
PT 882049	T	20030430	PT 1997-903260	19970212
PL 186737	B1	20040227	PL 1997-328577	19970212
TW 390879	B	20000521	TW 1997-86101994	19970220
US 6323213	B1	20011127	US 1998-125191	19980813
NO 9803819	A	19980820	NO 1998-3819	19980820
HK 1018903	A1	20020510	HK 1999-104030	19990917
US 6278013	B1	20010821	US 2000-718062	20001121
CN 1335301	A	20020213	CN 2001-110855	20010228

PRIORITY APPLN. INFO.:

DE 1996-19606762	A	19960223
DE 1996-19633805	A	19960822
EP 1997-903260	A3	19970212
WO 1997-EP637	W	19970212
US 1998-125191	A3	19980813

OTHER SOURCE(S): MARPAT 127:248093
GI

I

AB Title compds. I [R1 = H, alkyl, optionally substituted by OH, OMe, NH₂, NHMe, NMe₂, or (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl; R2 = H, benzyl, alkyl, (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl, CH=CHCO₂R₃, CH₂CH₂CO₂R₃, CH₂CH₂CN, CH₂CH₂COMe, CH₂COMe; R₃ = Me, Et, R₄(NHCHR₅CO)_n; R₄ = H, alkyl, CO₂Me₃; R₅ = H, alkyl, hydroxyalkyl, aminoalkyl, thioalkyl, carboxyalkyl, benzyl; n = 1, 2; Y = O, S] were prepd. for use as antibacterial agents. Thus, I [R1 = OH, R2 = H, Y = O] was prepd. by aminating the 7-chloroquinoline. I [R1 = OH, R2 = H, Y = O] had min. inhibitory concns. against a no. of bacteria that were superior to those of enrofloxacin.

IT **195532-12-8P**

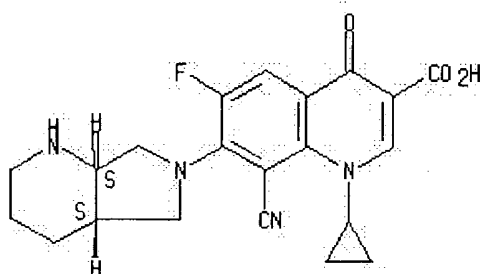
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); **RCT (Reactant)**; SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; RACT (Reactant or reagent); USES (Uses)
(prepn. of diazabicyclononylquinolinecarboxylic acid derivs. as bactericides)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-

[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



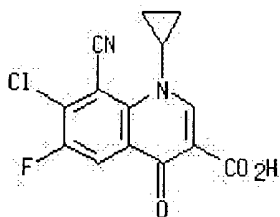
IT 117528-65-1 151213-40-0

RL: **RCT (Reactant)**; RACT (Reactant or reagent)

(prepn. of diazabicyclononylquinolinecarboxylic acid derivs. as bactericides)

RN 117528-65-1 HCAPLUS

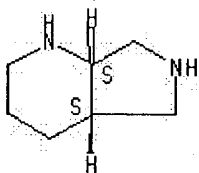
CN 3-Quinolinecarboxylic acid, 7-chloro-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



RN 151213-40-0 HCAPLUS

CN 1H-Pyrrolo[3,4-b]pyridine, octahydro-, (4aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 195532-14-0P 195532-16-2P 195532-18-4P

195532-20-8P 195532-22-0P 195532-25-3P

195532-27-5P 195532-29-7P 195532-31-1P

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195532-42-4P 195532-45-7P 195532-48-0P

195532-58-2P

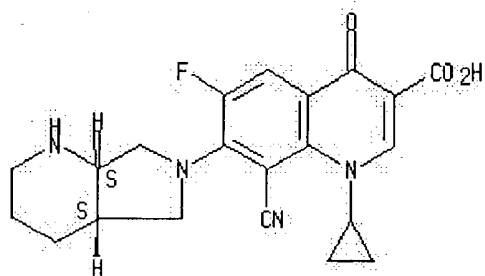
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)

(prepn. of diazabicyclononylquinolinecarboxylic acid derivs. as bactericides)

RN 195532-14-0 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-(octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-, monohydrochloride, (4aS-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



HCl

RN 195532-16-2 HCAPLUS

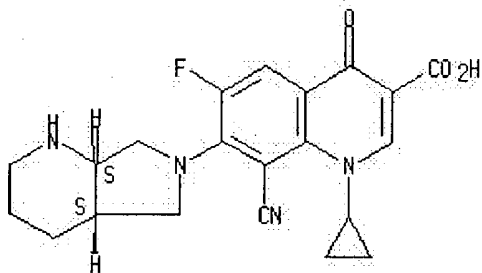
CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-(octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-, (4aS-cis)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 195532-12-8

CMF C21 H21 F N4 O3

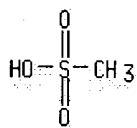
Absolute stereochemistry.



CM 2

CRN 75-75-2

CMF C H4 O3 S

RN 195532-18-4 HCAPLUS

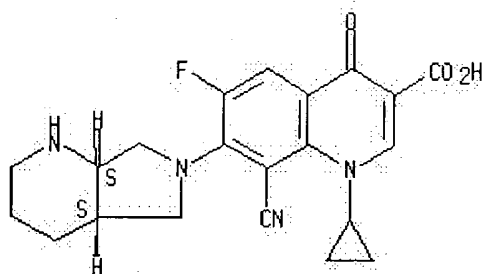
CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-(octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-, (4aS-cis)-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 195532-12-8

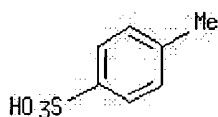
CMF C21 H21 F N4 O3

Absolute stereochemistry.



CM 2

CRN 104-15-4
 CMF C7 H8 O3 S

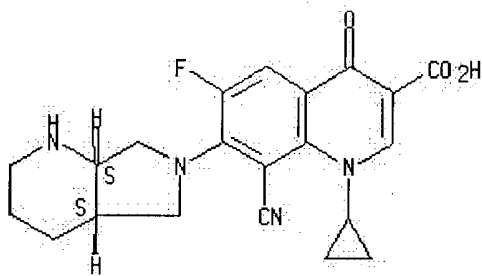


RN 195532-20-8 HCAPLUS
 CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-(octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-, (4aS-cis)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

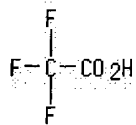
CRN 195532-12-8
 CMF C21 H21 F N4 O3

Absolute stereochemistry.



CM 2

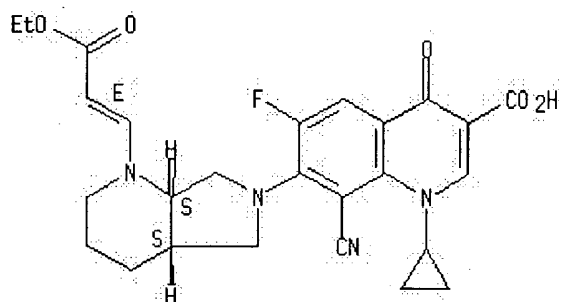
CRN 76-05-1
 CMF C2 H F3 O2



RN 195532-22-0 HCAPLUS
 CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-7-[1-(3-ethoxy-3-oxo-1-propenyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-6-fluoro-1,4-dihydro-4-oxo-, [4aS-[1(E),4aα,7aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

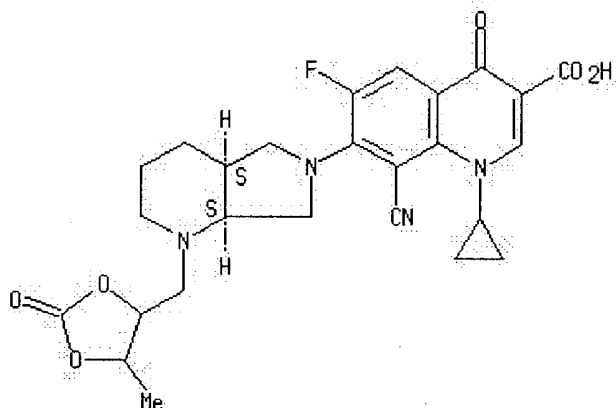
Double bond geometry as shown.



RN 195532-25-3 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-
[octahydro-1-[(5-methyl-2-oxo-1,3-dioxolan-4-yl)methyl]-6H-pyrrolo[3,4-
b]pyridin-6-yl]-4-oxo-, [4aS-(4aα,7aα)]-[partial]-(9CI) (CA
INDEX NAME)

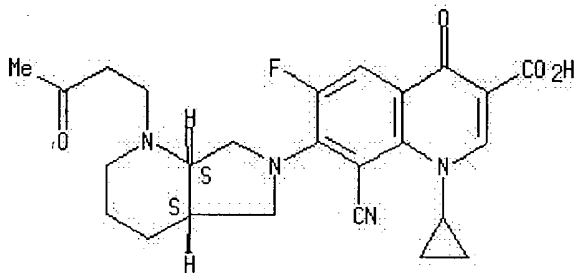
Absolute stereochemistry.



RN 195532-27-5 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-
[octahydro-1-(3-oxobutyl)-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-,
(4aS-cis)-(9CI) (CA INDEX NAME)

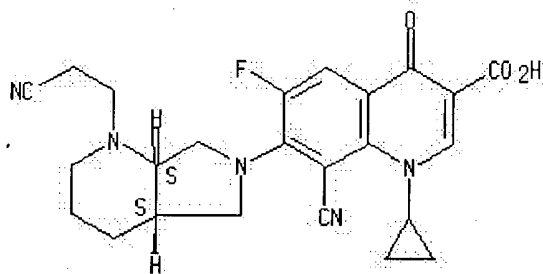
Absolute stereochemistry.



RN 195532-29-7 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-7-[1-(2-cyanoethyl)octahydro-6H-
pyrrolo[3,4-b]pyridin-6-yl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
(4aS-cis)-(9CI) (CA INDEX NAME)

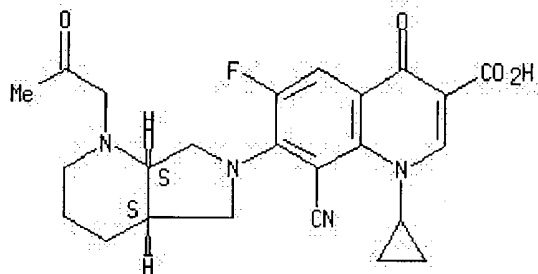
Absolute stereochemistry.



RN 195532-31-1 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[octahydro-1-(2-oxopropyl)-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-, (4aS-cis)-(9CI) (CA INDEX NAME)

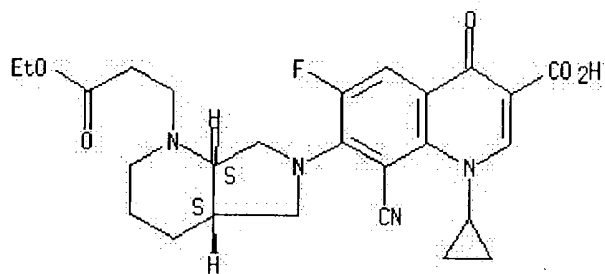
Absolute stereochemistry.



RN 195532-33-3 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-7-[1-(3-ethoxy-3-oxopropyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-6-fluoro-1,4-dihydro-4-oxo-, (4aS-cis)-(9CI) (CA INDEX NAME)

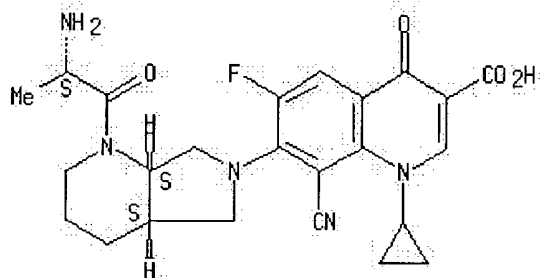
Absolute stereochemistry.



RN 195532-36-6 HCAPLUS

CN 3-Quinolinecarboxylic acid, 7-[1-(2-amino-1-oxopropyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride, [4aS-[1(R*),4aα,7aα]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

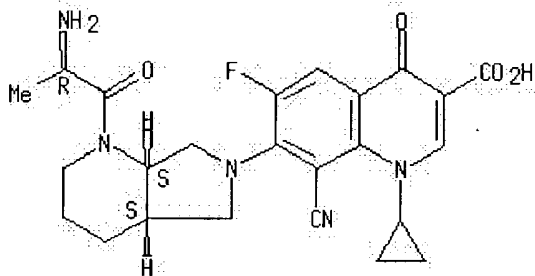


HCl

RN 195532-39-9 HCAPLUS

CN 3-Quinolinecarboxylic acid, 7-[1-(2-amino-1-oxopropyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride, [4aS-[1(S*),4a α ,7a α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

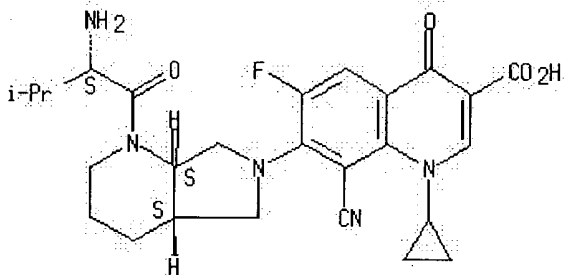


HCl

RN 195532-42-4 HCAPLUS

CN 3-Quinolinecarboxylic acid, 7-[1-(2-amino-3-methyl-1-oxobutyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride, [4aS-[1(R*),4a α ,7a α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

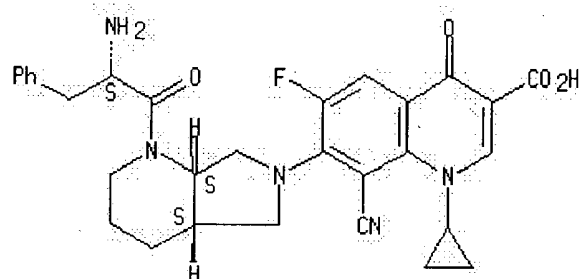


HCl

RN 195532-45-7 HCAPLUS

CN 3-Quinolinecarboxylic acid, 7-[1-(2-amino-1-oxo-3-phenylpropyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride, [4aS-[1(R*),4a α ,7a α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

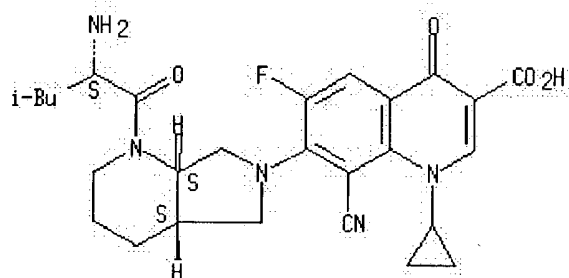


HCl

RN 195532-48-0 HCAPLUS

CN 3-Quinolinecarboxylic acid, 7-[1-(2-amino-4-methyl-1-oxopentyl)octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monohydrochloride, [4aS-[1(R*),4α,7α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

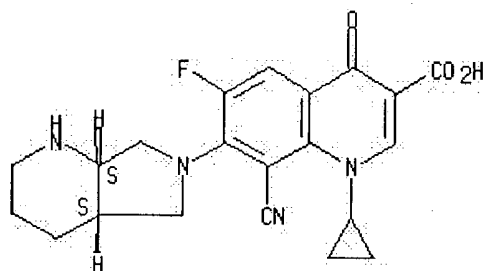


HCl

RN 195532-58-2 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-(octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl)-4-oxo-, monosodium salt, (4aS-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



Na

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.36	495.07

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

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 L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004

L4 12 S L3

FILE 'REGISTRY' ENTERED AT 22:58:25 ON 07 NOV 2004

L5 STRUCTURE UPLOADED
 L6 0 S L5
 L7 19 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 22:59:56 ON 07 NOV 2004

L8 31 S L7/RCT
 L9 4 S L3/PRP
 L10 3 S L9 AND L8

FILE 'REGISTRY' ENTERED AT 23:00:15 ON 07 NOV 2004

L11 STRUCTURE UPLOADED
 L12 4 S L11
 L13 48 S L11 FULL

FILE 'HCAPLUS' ENTERED AT 23:02:20 ON 07 NOV 2004

L14 8 S L13/RCT
 L15 3 S L14 AND L10

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=> s 17 and 13

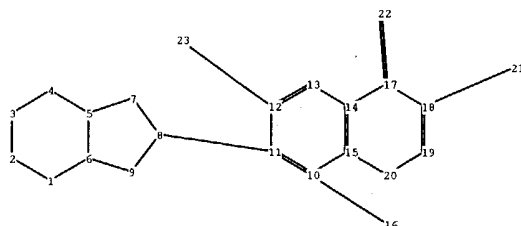
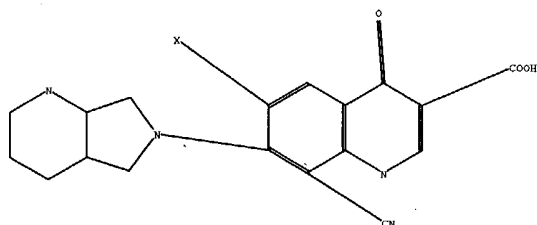
1 L7

0 L3

L16

0 L7 AND L3

=>



chain nodes :

16 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20

chain bonds :

8-11 10-16 12-23 17-22 18-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-17 15-20 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-9 8-11 14-17 15-20 17-18 17-22 18-19 19-20

exact bonds :

5-7 6-9 10-16 12-23 18-21

normalized bonds :

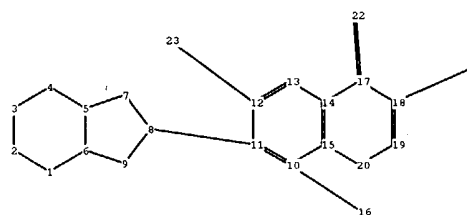
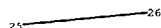
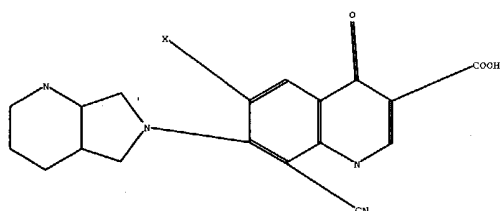
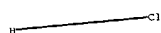
10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:CLASS 22:CLASS 23:CLASS



chain nodes :

16 21 22 23 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20

chain bonds :

8-11 10-16 12-23 17-22 18-21 25-26

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-17 15-20 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-9 8-11 14-17 15-20 17-18 17-22 18-19 19-20

exact bonds :

5-7 6-9 10-16 12-23 18-21 25-26

normalized bonds :

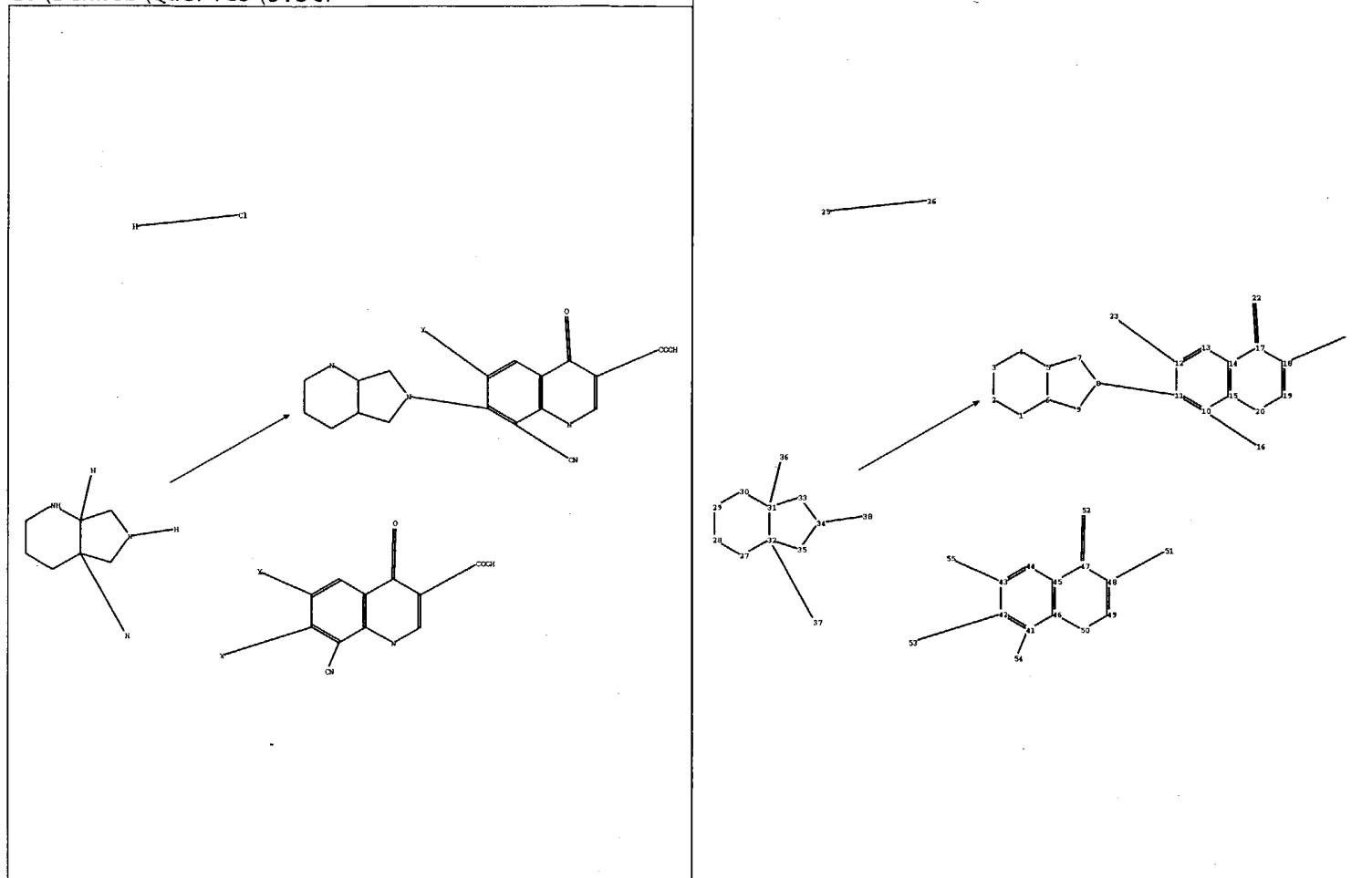
10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS



chain nodes :

16 21 22 23 25 26 36 37 38 51 52 53 54 55

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 27 28 29 30 31 32
33 34 35 41 42 43 44 45 46 47 48 49 50

chain bonds :

8-11 10-16 12-23 17-22 18-21 25-26 31-36 32-37 34-38 41-54 42-53 43-55 47-52
48-51

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-17 15-20 17-18 18-19 19-20 27-28 27-32 28-29 29-30 30-31 31-32 31-33
32-35 33-34 34-35 41-42 41-46 42-43 43-44 44-45 45-46 45-47 46-50 47-48 48-49
49-50

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-9 8-11 14-17 15-20 17-18 17-22 18-19 19-20
27-28 27-32 28-29 29-30 30-31 31-32 33-34 34-35 45-47 46-50 47-48 47-52 48-49
49-50

exact bonds :

5-7 6-9 10-16 12-23 18-21 25-26 31-33 31-36 32-35 32-37 34-38 41-54 42-53
43-55 48-51

normalized bonds :

10-11 10-15 11-12 12-13 13-14 14-15 41-42 41-46 42-43 43-44 44-45 45-46

isolated ring systems :

containing 1 : 10 : 27 : 41 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:Atom 28:Atom 29:Atom 30:Atom
31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:CLASS 37:CLASS 38:CLASS 41:Atom
42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS
52:CLASS 53:CLASS 54:CLASS 55:CLASS

fragments assigned reactant role:

containing 27
fragments assigned product role:
containing 1
containing 25

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 fields
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 (Version 7.01 for Windows) now available
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
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	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

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STRUCTURE FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5
 DICTIONARY FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

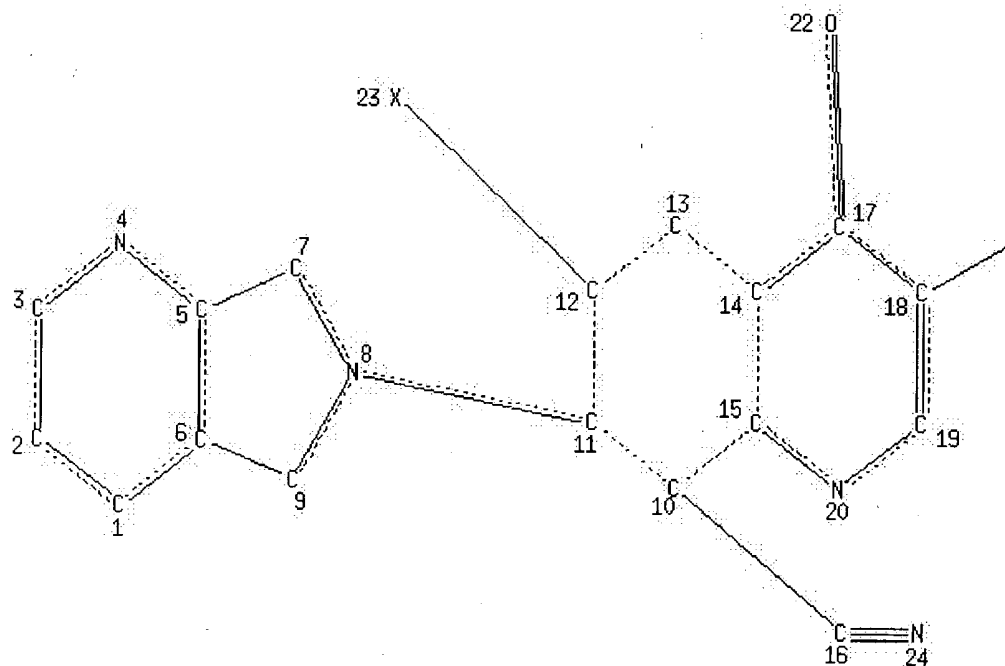
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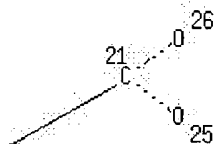
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L1 HAS NO ANSWERS

L1 STR



Page 1-A



Page 1-B

NODE ATTRIBUTES:

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NSPEC	IS	R	AT	2
NSPEC	IS	R	AT	3
NSPEC	IS	R	AT	4
NSPEC	IS	R	AT	5
NSPEC	IS	R	AT	6
NSPEC	IS	R	AT	7
NSPEC	IS	R	AT	8
NSPEC	IS	R	AT	9
NSPEC	IS	R	AT	10

NSPEC IS R AT 11
 NSPEC IS R AT 12
 NSPEC IS R AT 13
 NSPEC IS R AT 14
 NSPEC IS R AT 15
 NSPEC IS C AT 16
 NSPEC IS R AT 17
 NSPEC IS R AT 18
 NSPEC IS R AT 19
 NSPEC IS R AT 20
 NSPEC IS C AT 21
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 NSPEC IS C AT 26
 DEFAULT MLEVEL IS ATOM
 MLEVEL IS CLASS AT 16 21 22 23 24 25 26
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

=> \$ 11

SAMPLE SEARCH INITIATED 21:12:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 2 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 6 TO 266
 PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> \$ 11 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 21:12:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 23 ANSWERS
 SEARCH TIME: 00.00.01

L3 23 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	157.94	158.36

FILE 'HCAPLUS' ENTERED AT 21:12:24 ON 07 NOV 2004

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FILE COVERS 1907 - 7 Nov 2004 VOL 141 ISS 20
FILE LAST UPDATED: 6 Nov 2004 (20041106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 12 L3

=> s 14 and himmler, t?/au

61 HIMMLER, T?/AU

L5 6 L4 AND HIMMLER, T?/AU

=> d 15, ibib abs fhitstr, 1-6

L5 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Chemical References
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ACCESSION NUMBER: 2000:607382 HCAPLUS
DOCUMENT NUMBER: 133:213147
TITLE: Crystal modification C of 8-cyano-1-cyclopropyl-7-[(1S,6S)-2,8-diazabicyclo[4.3.0]nonan-8-yl]-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
INVENTOR(S): Rast, Hubert; **Himmler, Thomas**
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>DE 19908449</u>	A1	20000831	<u>DE 1999-19908449</u>	19990226
<u>CA 2362801</u>	AA	20000908	<u>CA 2000-2362801</u>	20000214
<u>WO 2000052009</u>	A1	20000908	<u>WO 2000-EP1202</u>	20000214

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

NZ 513750	A	20010928	NZ 2000-513750	20000214
EP 1155018	A1	20011121	EP 2000-909166	20000214
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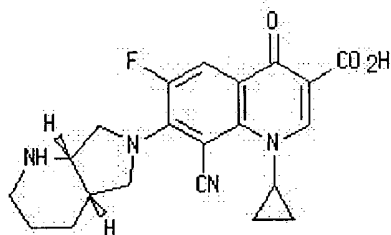
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BR 2000008493	A	20020205	BR 2000-8493	20000214
TR 200102434	T2	20020321	TR 2001-200102434	20000214
JP 2002538158	T2	20021112	JP 2000-602235	20000214
AT 226952	E	20021115	AT 2000-909166	20000214
PT 1155018	T	20030228	PT 2000-909166	20000214
ES 2181644	T3	20030301	ES 2000-909166	20000214
AU 763003	B2	20030710	AU 2000-31543	20000214
ZA 2001006289	A	20020731	ZA 2001-6289	20010731
NO 2001004061	A	20010821	NO 2001-4061	20010821
US 6649762	B1	20031118	US 2001-914090	20010822

PRIORITY APPLN. INFO.:

DE 1999-19908449	A	19990226
WO 2000-EP1202	W	20000214

GI



I

AB The title compd. (I) is converted to stable crystal modification C (m. 235-237°) by holding I at room temp. and relative humidity ≥92% until no further wt. gain occurs, drying, and heating to above the conversion temp. (150-180°). I modification D is characterized by its powder x-ray diffractogram, IR spectrum, and by DTA. I is highly active against pathogenic bacteria in human and veterinary medicine.

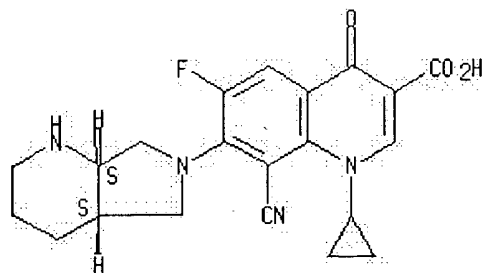
IT 195532-12-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(crystal modification D of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

h eb c g cg b cg

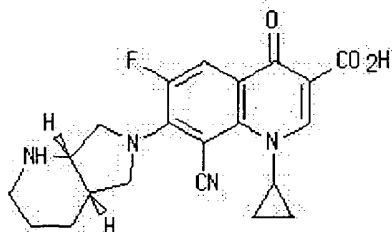
eb



ACCESSION NUMBER: 2000:607381 HCAPLUS
 DOCUMENT NUMBER: 133:213146
 TITLE: Crystal modification D of 8-cyano-1-cyclopropyl-7-
 [(1S,6S)-2,8-diazabicyclo[4.3.0]nonan-8-yl]-6-fluoro-
 1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
 INVENTOR(S): **Himmler, Thomas**; Rast, Hubert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 12 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19908448	A1	20000831	DE 1999-19908448	19990226
CA 2362804	AA	20000908	CA 2000-2362804	20000214
WO 2000052010	A1	20000908	WO 2000-EP1203	20000214
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EP 1159277	A1	20011205	EP 2000-909167	20000214
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BR 2000008520	A	20011218	BR 2000-8520	20000214
TR 200102435	T2	20020121	TR 2001-200102435	20000214
JP 2002538159	T2	20021112	JP 2000-602236	20000214
AU 760710	B2	20030522	AU 2000-31544	20000214
AU 2000031544	A5	20000921		
NZ 513749	A	20031031	NZ 2000-513749	20000214
ZA 2001006050	A	20020724	ZA 2001-6050	20010724
NO 2001004059	A	20010821	NO 2001-4059	20010821
US 6492391	B1	20021210	US 2001-914031	20010822
PRIORITY APPLN. INFO.:			DE 1999-19908448	A 19990226
			WO 2000-EP1203	W 20000214

GI



I

AB The title compd. (I) is converted to stable crystal modification D (m.
 261-265°) by dissolving I in H₂O to a concn. of 1-3 wt.%, allowing
 the soln. to stand until a ppt. forms, removing the ppt. by filtration,
 drying the remaining soln., and heating the solid obtained to above the

transition temp. (130-160°). I modification D is characterized by its powder x-ray diffractogram, IR spectrum, and by DTA. I is highly active against pathogenic bacteria in human and veterinary medicine.

IT 195532-12-8

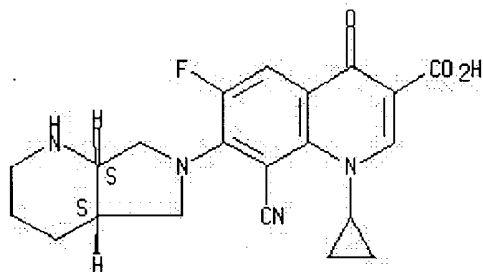
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(crystal modification D of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN



ACCESSION NUMBER: 2000:366037 HCAPLUS
 DOCUMENT NUMBER: 133:4647
 TITLE: Semihydrochloride of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
 INVENTOR(S): Himmler, Thomas; Rast, Hubert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854357	A1	20000531	DE 1998-19854357	19981125
CA 2351714	AA	20000602	CA 1999-2351714	19991115
WO 2000031077	A1	20000602	WO 1999-EP8778	19991115
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EP 1133495	A1	20010919	EP 1999-955995	19991115

EP 1133495

B1 20021009

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

TR 200101443

T2 20010921

TR 2001-200101443

19991115

JP 2002530408

T2 20020917

JP 2000-583905

19991115

AT 225790

E 20021015

AT 1999-955995

19991115

ES 2181488

T3 20030216

ES 1999-955995

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PT 1133495

T 20030228

PT 1999-955995

19991115

AU 759769

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AU 2000-12716

19991115

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A 20030530

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PRIORITY APPLN. INFO.:

DE 1998-19854357

A 19981125

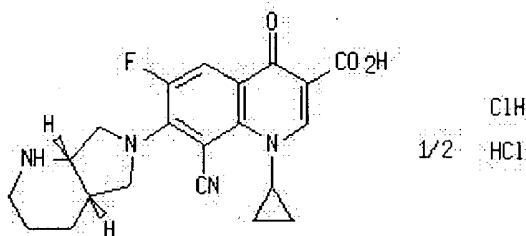
WO 1999-EP8778

W 19991115

OTHER SOURCE(S):

CASREACT 133:4647

GI



AB The title compd. (I), useful as a medical and veterinary bactericide, shows good water soly. (19 wt.%). I is produced by reaction of 7-halo-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid with (1S,6S)-2,8-diazabicyclo[4.3.0]nonane in the presence of a base in one of the following diluents: (a) a C₂+4 aliph. alc.; (b) a mixt. of a C₃+3 alc. with the polar aprotic diluent, N-methylpyrrolidone; (c) a mixt. of n-PrOH with DMF. I (m. 278-280°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

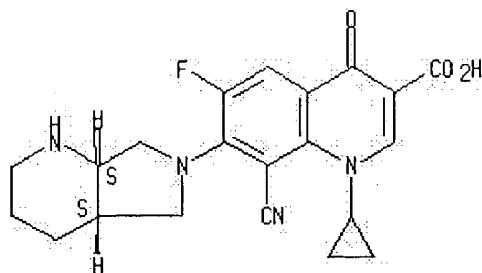
IT 271252-05-2P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(semihydrochloride of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 271252-05-2 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-, hydrochloride (2:1) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



1/2 HCl

h

eb c

g cg b

cg

eb

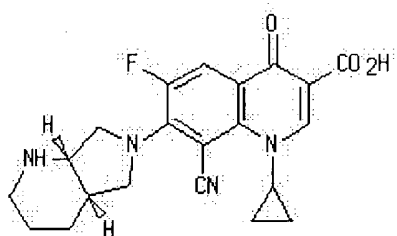
L5 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Chemical References
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ACCESSION NUMBER: 2000:366036 HCAPLUS
 DOCUMENT NUMBER: 133:4646
 TITLE: Crystal modification A of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
 INVENTOR(S): Himmler, Thomas; Hallenbach, Werner; Rast, Hubert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854356	A1	20000531	DE 1998-19854356	19981125
CA 2351712	AA	20000602	CA 1999-2351712	19991115
WO 2000031075	A1	20000602	WO 1999-EP8775	19991115
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 9915669	A	20010814	BR 1999-15669	19991115
EP 1133496	A1	20010919	EP 1999-958040	19991115
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101438	T2	20011022	TR 2001-200101438	19991115
JP 2002530406	T2	20020917	JP 2000-583903	19991115
NZ 511861	A	20021220	NZ 1999-511861	19991115
AU 763883	B2	20030731	AU 2000-15533	19991115
CN 1135229	B	20040121	CN 1999-813686	19991115
TW 576835	B	20040221	TW 1999-88119810	19991115
AT 264858	E	20040515	AT 1999-958040	19991115
PT 1133496	T	20040831	PT 1999-958040	19991115
NO 2001002460	A	20010518	NO 2001-2460	20010518
US 6436955	B1	20020820	US 2001-856669	20010523
PRIORITY APPLN. INFO.:				
			DE 1998-19854356	A 19981125
			WO 1999-EP8775	W 19991115

GI



I

AB The title compd. in crystal modification A (I), useful as a medical and veterinary bactericide, is stable during extended storage without conversion to the amorphous form or any other crystal modification, and is less hygroscopic than the amorphous form of the compd. I is produced by dissolving the amorphous compd. or an unknown modification of it in hot water or a hot water-alc. mixt., adding an alc. (esp. EtOH or iso-PrOH), and cooling to room temp. I (m. 249-252°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

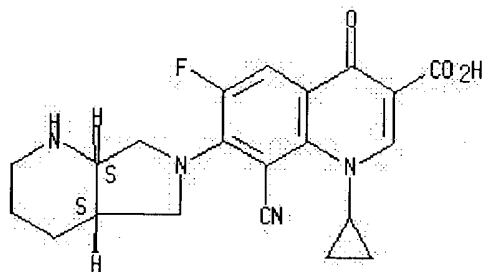
IT **195532-12-8P**

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(crystal modification A of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN **195532-12-8** HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text
Citing References

ACCESSION NUMBER: 2000:366035 HCAPLUS
DOCUMENT NUMBER: 133:4645
TITLE: Crystal modification B of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
INVENTOR(S): **Himmler, Thomas**; Hallenbach, Werner; Rast, Hubert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854355	A1	20000531	DE 1998-19854355	19981125
CA 2351707	AA	20000602	CA 1999-2351707	19991115
WO 2000031076	A1	20000602	WO 1999-EP8776	19991115

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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
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 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

BR 9915682 A 20010814 BR 1999-15682 19991115
 EP 1133497 A1 20010919 EP 1999-959278 19991115

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

TR 200101444 T2 20020121 TR 2001-200101444 19991115

JP 2002530407 T2 20020917 JP 2000-583904 19991115

NZ 511862 A 20030829 NZ 1999-511862 19991115

AU 767890 B2 20031127 AU 2000-16517 19991115

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US 6664268 B1 20031216 US 2001-856670 20010523

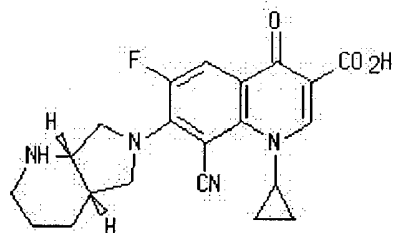
PRIORITY APPLN. INFO.:

DE 1998-19854355 A 19981125

WO 1999-EP8776 W 19991115

OTHER SOURCE(S): CASREACT 133:4645

GI



I

AB The title compd. in crystal modification B (I), useful as a medical and veterinary bactericide, is stable during extended storage without conversion to the amorphous form or any other crystal modification, and is less hygroscopic than the amorphous form of the compd. I is produced either (a) by reaction of 7-halo-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid with (1S,6S)-2,8-diazabicyclo[4.3.0]nonane in the presence of a base in a mixt. of EtOH and a polar aprotic diluent such as N-methylpyrrolidone, DMF, or sulfolane, or (b) by heating an unknown modification of the compd. in the presence of a base in EtOH, n-PROH, iso-PROH, or a mixt. of one of these alcs. with one of the polar aprotic diluents named previously. I (m. 243-245°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

IT 195532-12-8P

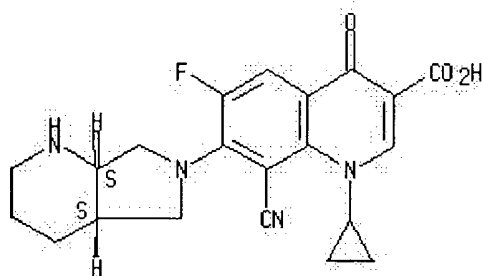
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(crystal modification B of cyanocyclopropyl(diazabicyclononyl)fluorodihydrooxoquinolinecarboxylic acid)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Cited References
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ACCESSION NUMBER: 1997:579724 HCAPLUS
 DOCUMENT NUMBER: 127:248093
 TITLE: 8-Cyano-1-cyclopropyl-7-(2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid derivatives
 INVENTOR(S): Bartel, Stefan; Jaetsch, Thomas; **Himmeler, Thomas**; Rast, Hans-Georg; Hallenbach, Werner; Heinen, Ernst; Pirro, Franz; Scheer, Martin; Stegemann, Michael; Stupp, Hans-Peter; Wetzstein, Heinz-Georg
 PATENT ASSIGNEE(S): Bayer A.-G., Germany; Bartel, Stefan; Jaetsch, Thomas; Himmeler, Thomas; Rast, Hans-Georg; Hallenbach, Werner; Heinen, Ernst; Pirro, Franz; Scheer, Martin; et al.
 SOURCE: PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

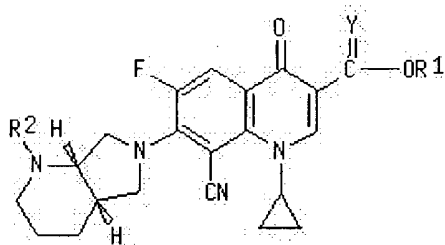
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 9731001</u>	A1	19970828	<u>WO 1997-EP637</u>	19970212
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
<u>DE 19633805</u>	A1	19970828	<u>DE 1996-19633805</u>	19960822
<u>ZA 9701507</u>	A	19970916	<u>ZA 1997-1507</u>	19970202
<u>CA 2247020</u>	AA	19970828	<u>CA 1997-2247020</u>	19970212
<u>AU 9717689</u>	A1	19970910	<u>AU 1997-17689</u>	19970212
<u>AU 715341</u>	B2	20000120		
<u>EP 882049</u>	A1	19981209	<u>EP 1997-903260</u>	19970212
<u>EP 882049</u>	B1	20021120		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
<u>CN 1211984</u>	A	19990324	<u>CN 1997-192523</u>	19970212
<u>CN 1073112</u>	B	20011017		
<u>BR 9707606</u>	A	19990727	<u>BR 1997-7606</u>	19970212
<u>NZ 331468</u>	A	20000228	<u>NZ 1997-331468</u>	19970212
<u>JP 2000504734</u>	T2	20000418	<u>JP 1997-529755</u>	19970212
<u>IL 125444</u>	A1	20010319	<u>IL 1997-125444</u>	19970212
<u>RU 2173316</u>	C2	20010910	<u>RU 1998-117814</u>	19970212
<u>EP 1215202</u>	A1	20020619	<u>EP 2002-6519</u>	19970212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
<u>AT 228130</u>	E	20021215	<u>AT 1997-903260</u>	19970212
<u>CZ 291251</u>	B6	20030115	<u>CZ 1998-2684</u>	19970212
<u>ES 2184060</u>	T3	20030401	<u>ES 1997-903260</u>	19970212

PT 882049	T	20030430	PT 1997-903260	19970212
PL 186737	B1	20040227	PL 1997-328577	19970212
TW 390879	B	20000521	TW 1997-86101994	19970220
US 6323213	B1	20011127	US 1998-125191	19980813
NO 9803819	A	19980820	NO 1998-3819	19980820
HK 1018903	A1	20020510	HK 1999-104030	19990917
US 6278013	B1	20010821	US 2000-718062	20001121
CN 1335301	A	20020213	CN 2001-110855	20010228

PRIORITY APPLN. INFO.:

DE 1996-19606762	A	19960223
DE 1996-19633805	A	19960822
EP 1997-903260	A3	19970212
WO 1997-EP637	W	19970212
US 1998-125191	A3	19980813

OTHER SOURCE(S): MARPAT 127:248093
GI



I

AB Title compds. I [R1 = H, alkyl, optionally substituted by OH, OMe, NH2, NHMe, NMe2, or (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl; R2 = H, benzyl, alkyl, (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl, CH=CHCO2R3, CH2CH2CO2R3, CH2CH2CN, CH2CH2COMe, CH2COMe; R3 = Me, Et, R4(NHCHR5CO)n; R4 = H, alkyl, CO2CMe3; R5 = H, alkyl, hydroxyalkyl, aminoalkyl, thioalkyl, carboxyalkyl, benzyl; n = 1, 2; Y = O, S] were prepd. for use as antibacterial agents. Thus, I [R1 = OH, R2 = H, Y = O] was prepd. by aminating the 7-chloroquinoline. I [R1 = OH, R2 = H, Y = O] had min. inhibitory concns. against a no. of bacteria that were superior to those of enrofloxacin.

IT 195532-12-8P

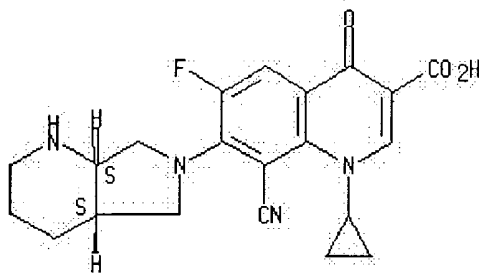
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of diazabicyclononylquinolinecarboxylic acid derivs. as bactericides)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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FILE 'REGISTRY' ENTERED AT 21:08:29 ON 07 NOV 2004

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 21:12:24 ON 07 NOV 2004

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L6 6 L4 NOT L5

=> s l6 and rast, r?/au

10 RAST, R?/AU

L7 0 L6 AND RAST, R?/AU

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L6 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text
References

ACCESSION NUMBER: 2004:800774 HCAPLUS

DOCUMENT NUMBER: 141:282840

TITLE: Controlled-release drug delivery system containing
saccharose acetate isobutyrate (SAIB)

INVENTOR(S): Fraatz, Kristine; Mertin, Dirk; Heep, Iris

PATENT ASSIGNEE(S): Bayer Healthcare AG, Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10312346	A1	20040930	DE 2003-10312346	20030320
WO 2004082658	A1	20040930	WO 2004-EP2318	20040306
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: DE 2003-10312346 A 20030320

AB The invention concerns controlled-release drug delivery systems that include (a) a drug; (b) saccharose acetate isobutyrate (SAIB); (c) glycerinformal, isopropylidene glycerol or their mixt. as solvent. A cosolvent can be added; they are selected from the group of ethanol, n-butanol and benzyl alc. Thus a formulation contained (wt./wt.%): SAIB

40; pradofloxacin 3; n-butanol 3; ethanol 5; 1N HCl 1.7; glycerin formal to 100.

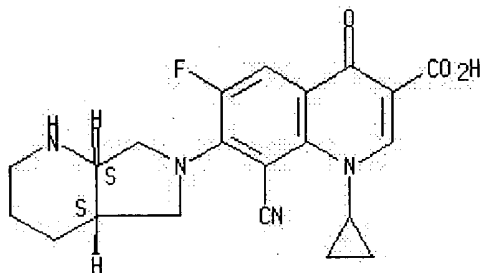
IT 195532-12-8, Pradofloxacin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(controlled release drug delivery system contg. saccharose acetate isobutyrate (SAIB))

RN 195532-12-8 HCAPLUS

CN 3-Quinolonecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text References

ACCESSION NUMBER: 2003:971863 HCAPLUS
DOCUMENT NUMBER: 140:31484
TITLE: Pharmaceutical preparations, especially quinolone antibiotics, for oral administration, containing ion-exchange resins loaded with active ingredients and intrinsically viscous gelling agents as thickening agents
INVENTOR(S): Martin, Dirk; Edingloh, Markus; Daube, Gert
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003101422	A2	20031211	WO 2003-EP5228	20030519
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
DE 10224086	A1	20031211	DE 2002-10224086	20020531
PRIORITY APPLN. INFO.:			DE 2002-10224086	A 20020531
AB The invention relates to pharmaceutical preps. for oral administration,				

said preps. contg. at least one active ingredient which is bound to an ion exchanger. The inventive preps. also contain an intrinsically viscous gelling agent as a thickening agent in order to improve their phys. stability and acceptance, esp. by animals. Thus 0.18 kg methyl-p-hydroxybenzoate and 0.02 kg propyl-p-hydroxybenzoate were dissolved in 75.0 kg hot water; 0.3 kg Xanthan gum and 0.3 kg bentonite were added under vigorous mixing; mixing was continued for one hour at 70°C. The mixt. was cooled; 6.0 kg pradofloxacin, 18.0 kg

Amberlite IRP 64 and 1.0 kg vanillin were added to the sol.

IT 195532-12-8, Pradofloxacin

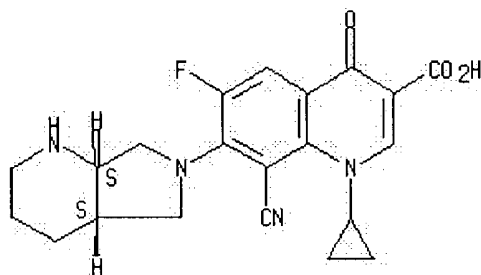
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(pharmaceutical preps., esp. quinolone antibiotics, for oral administration, contg. ion-exchange resins loaded with active ingredients and intrinsically viscous gelling agents as thickening agents)

RN 195532-12-8 HCAPLUS

CN 3-Quinolonecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text
References

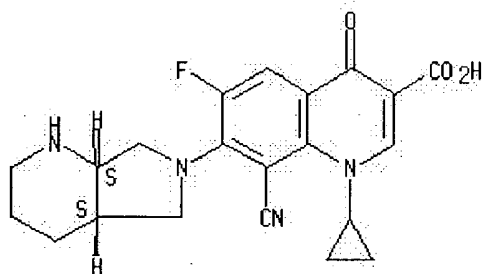
ACCESSION NUMBER: 2003:744337 HCAPLUS
DOCUMENT NUMBER: 139:301379
TITLE: Clinical efficacy and safety of pradofloxacin in the treatment of canine pyoderma and wound infections under field conditions
AUTHOR(S): Stephan, B.; Hellmann, K.; Liege, P.; Granier, S.; Knoppe, T. N.; Heinen, E.; Greife, H. A.
CORPORATE SOURCE: Animal Health Business Group, Bayer AG, Leverkusen, Germany
SOURCE: Journal of Veterinary Pharmacology and Therapeutics (2003), 26(Suppl. 1), 217-218
CODEN: JVPTD9; ISSN: 0140-7783
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Pradofloxacin is a novel 8-cyanofluoroquinolone with improved in vitro activity against a wide range of pathogenic bacteria. Tablets of different strengths are currently developed for the treatment of bacterial infections in dogs and cats. The objective of this work was to assess the clin. efficacy and safety of pradofloxacin in the treatment of canine pyoderma and wound infections.
IT 195532-12-8, Pradofloxacin

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (clin. efficacy and safety of pradofloxacin in treatment of canine pyoderma and wound infections under field conditions)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text References

ACCESSION NUMBER:

2003:744304 HCAPLUS

DOCUMENT NUMBER:

140:331682

TITLE:

Analytical method for the determination of pradofloxacin in serum and urine by turbulent flow chromatography/tandem mass spectrometry

AUTHOR(S):

Krebber, R.

CORPORATE SOURCE:

Bayer CropScience AG, BCS-D-ROCS, Monheim, Germany

SOURCE:

Journal of Veterinary Pharmacology and Therapeutics (2003), 26(Suppl. 1), 102-103

CODEN: JVPTD9; ISSN: 0140-7783

PUBLISHER:

Blackwell Publishing Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB A high-throughput anal. method was developed and validated for the detn. of pradofloxacin (PRA) concns. in body fluids. A turbulent flow chromatog. system 2300 HTLC with auto injector CTC HTS PAL coupled to a tandem mass spectrometer Sciex API 365 was used. Serum and urine samples of dogs and cats were analyzed within a mean accuracy between -1 and 4% and a precision between 5.1 and 7.8%. The method enables direct anal. of PRA in several body fluids. It combines a min. of sample prepn. with fast and highly selective detn. within an extremely wide range of linearity and is therefore highly suitable to assess PRA concns. in pharmacokinetic studies.

IT 195532-12-8, Pradofloxacin

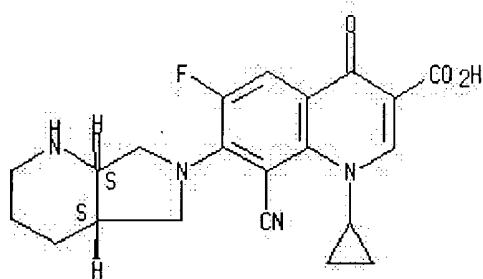
RL: ANT (Analyte); ANST (Analytical study)

(anal. method for detn. of pradofloxacin in serum and urine by turbulent flow chromatog./tandem mass spectrometry in cats and dogs)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text
References

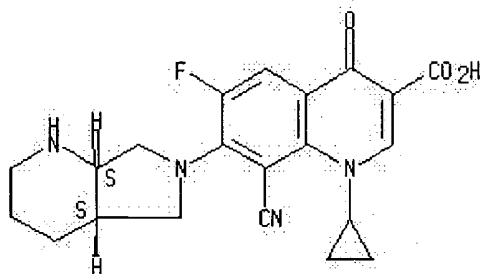
ACCESSION NUMBER: 2003:744303 HCAPLUS
DOCUMENT NUMBER: 140:331734
TITLE: Protein binding of pradofloxacin, a novel 8-cyanofluoroquinolone, in dog and cat plasma
AUTHOR(S): Bregante, M. A.; De Jong, A.; Calvo, A.; Hernandez, E.; Rey, R.; Garcia, M. A.
CORPORATE SOURCE: Veterinary Faculty of University of Zaragoza, Zaragoza, Spain
SOURCE: Journal of Veterinary Pharmacology and Therapeutics (2003), 26(Suppl. 1), 87-88
CODEN: JVPTD9; ISSN: 0140-7783
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The in vitro protein binding of pradofloxacin (PRA) in plasma of dogs and cats was investigated. Enrofloxacin (ENR), the first veterinary fluoroquinolone, was tested as a ref. drug. For concns. of 0.15, 0.75 and 1.50 µg/mL, the percentages of free unbound drug in dog plasma were 63.4±14.8, 63.6±10.5 and 64.2±8.8 for PRA and 59.7±13.3, 54.3±7.3 and 68.4±5.0 for ENR, resp. In cat plasma, the percentages unbound drug were 68.6±7.8, 70.4±11.5, and 71.2±6.2 for PRA and 63.7±10.5, 66.0±9.8 and 73.4±12.5 for ENR. The plasma protein binding of PRA amounted to 29-37% over a ten-fold concn. range: similar findings for ENR (27-46% bound) are in agreement with previous results. A concn. dependency was absent for PRA, but in case of ENR there were statistically significant differences both in dogs and cats; the numerical differences, however, were small.

IT 195532-12-8, Pradofloxacin
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protein binding of pradofloxacin, novel 8-cyanofluoroquinolone, in dog and cat plasma)

RN 195532-12-8 HCAPLUS
CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full
Text

Single
References

ACCESSION NUMBER: 2003:76654 HCAPLUS
DOCUMENT NUMBER: 138:126984
TITLE: Pharmaceutical preparations for oral administration containing ion exchange resins loaded with active ingredients
INVENTOR(S): Mertin, Dirk; Block, Wolfgang; Hamann, Hans-juergen
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007995	A2	20030130	WO 2002-EP7417	20020704
WO 2003007995	A3	20030731		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10134719	A1	20030206	DE 2001-10134719	20010717
EP 1411894	A2	20040428	EP 2002-743262	20020704
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011149	A	20040629	BR 2002-11149	20020704
PRIORITY APPLN. INFO.: DE 2001-10134719 A 20010717				
WO 2002-EP7417 W 20020704				

AB The invention relates to pharmaceutical prepn. contg. at least one active ingredient which is linked to an ion exchanger. In order to improve the palatability and to increase the stability, at least 90 % of said active ingredient/ion exchanger particles are smaller than 50 µm. Quinolone antibiotics are bound to cation exchange resins, esp. for the prepn. cat medication. Thus 3.86 kg enrofloxacin and 19.24 kg Amberlite IRP64 were suspended in 76.90 kg purified water and stirred for at least 8 h at room temp. The suspension was transferred to a filter dryer, filtered and dried at 85°C. The obtained 17.96 kg of enrofloxacin-loaded resin

was suspended with 60 g colloidal silica, 100.30 kg neutral oil (e.g. Miglyol 812) and ground in a perl mill; at least 90% of the particles were smaller than 10 µm.

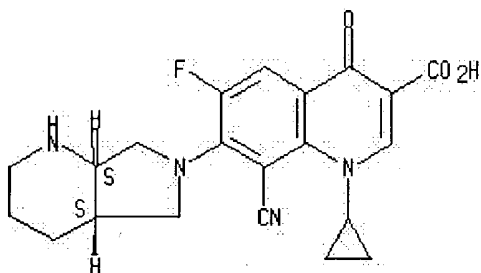
IT 195532-12-8

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical preps. for oral administration contg. ion exchange resins loaded with active ingredients)

RN 195532-12-8 HCAPLUS

CN 3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-7-
[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



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COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

68.92 227.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

ENTRY SESSION

CA SUBSCRIBER PRICE

-8.40 -8.40

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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L1 STRUCTURE UPLOADED

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eb

L2 2 S L1
L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 21:12:24 ON 07 NOV 2004

L4 12 S L3
L5 6 S L4 AND HIMMLER, T?/AU
L6 6 S L4 NOT L5
L7 0 S L6 AND RAST, R?/AU

FILE 'CAOLD' ENTERED AT 21:15:21 ON 07 NOV 2004

=> s 13

L8 0 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	227.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.40

FILE 'REGISTRY' ENTERED AT 21:15:28 ON 07 NOV 2004

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STRUCTURE FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

DICTIONARY FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR

=> s 19

SAMPLE SEARCH INITIATED 21:20:23 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 6 TO 266
 PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s l9 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 21:20:27 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L9

=>

L12 STRUCTURE UPLOADED

=> file casreact

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	173.06	400.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.40

FILE 'CASREACT' ENTERED AT 21:41:29 ON 07 NOV 2004
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FILE CONTENT:1840 - 7 Nov 2004 VOL 141 ISS 19

 *
 * CASREACT now has more than 8 million reactions *
 *

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

L13 STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS

L13 STR

=> * l13

SAMPLE SEARCH INITIATED 21:41:51 FILE 'CASREACT'
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L13 (0 REACTIONS)

=> * l13 full

THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 102.30 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 21:41:56 FILE 'CASREACT'

SCREENING COMPLETE - 1 REACTIONS TO VERIFY FROM 1 DOCUMENTS

100.0% DONE 1 VERIFIED 1 HIT RXNS 1 DOCS
SEARCH TIME: 00.00.01

L15 1 SEA SSS FUL L13 (1 REACTIONS)

=> d l15, ibib abs crc, 1

'CRC' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE, Single-step Reactions

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DALL ----- ALL, delimited (end of each field identified)

IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels

IND ----- Indexing data

IPC ----- International Patent Classifications

ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OIBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

MAX ----- Same as ALL

PATS ----- PI, SO

SCAN ----- TI and FCRD (random display, no answer number. SCAN
must be entered on the same line as DISPLAY, e.g.,
D SCAN.)

SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for
all single-step reactions)

STD ----- BIB, IPC, and NCL

CRD ----- Compact Display of All Hit Reactions

```

CRDREF ----- Compact Reaction Display and SO, PY for Reference
FHIT ----- Reaction Map, Diagram, and Summary for first
              hit reaction
FHITCBIB --- FHIT, AN plus CBIB
FCRD ----- First hit in Compact Reaction Display (CRD) format
FCRDREF ---- First hit in Compact Reaction Display (CRD) format with
              CA reference information (SO, PY). (Default)
FPATH ----- PATH, plus Reaction Summary for the "long path"
FSPATH ----- SPATH, plus Reaction Summary for the "short path"
HIT ----- Reaction Map, Reaction Diagram, and Reaction
            Summary for all hit reactions and fields containing
            hit terms
OCC ----- All hit fields and the number of occurrences of the .
            hit terms in each field. Includes total number of
            HIT, PATH, SPATH reactions. Labels reactions that have
            incomplete verifications.
PATH ----- Reaction Map and Reaction Diagram for the "long
            path". Displays all hit reactions, except those
            whose steps are totally included within another hit
            reaction which is displayed
RX ----- Hit Reactions (Map, Diagram, Summary for all hit reactions)
RXG ----- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL ----- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)
RXS ----- Hit Reaction Summarizers (Map and Summary for all hit reactions)
SPATH ----- Reaction Map and Reaction Diagram for the "short
            path". Displays all single step reactions which
            contain a hit substance. Also displays those
            multistep reactions that have a hit substance in both
            the first and last steps of the reaction, except for
            those hit reactions whose steps are totally included
            within another hit reaction which is displayed

```

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):end

=> of his

(FILE 'HOME' ENTERED AT 21:07:21 ON 07 NOV 2004)

FILE 'REGISTRY' ENTERED AT 21:08:29 ON 07 NOV 2004

```
L1          STRUCTURE  UPLOADED
L2          2 S L1
L3          23 S L1 FULL
```

FILE 'HCAPLUS' ENTERED AT 21:12:24 ON 07 NOV 2004

```

L4      12 S L3
L5      6 S L4 AND HIMMLER, T?/AU
L6      6 S L4 NOT L5
L7      0 S L6 AND RAST, R?/AU

```

FILE 'CAOLD' ENTERED AT 21:15:21 ON 07 NOV 2004

L8 O S L3

FILE 'REGISTRY' ENTERED AT 21:15:28 ON 07 NOV 2004

L9 STRUCTURE UPLOADED
 L10 0 S L9
 L11 0 S L9 FULL
 L12 STRUCTURE UPLOADED

FILE 'CASREACT' ENTERED AT 21:41:29 ON 07 NOV 2004

L13 STRUCTURE UPLOADED
 L14 0 S L13
 L15 1 S L13 FULL

=> d 115, ibib abs crd, 1

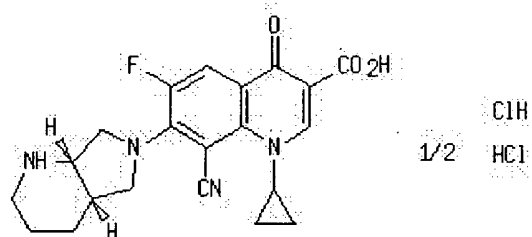
L15 ANSWER 1 OF 1 CASREACT COPYRIGHT 2004 ACS on STN

Full Text	Cited References
--------------	---------------------

ACCESSION NUMBER: 133:4647 CASREACT
 TITLE: Semihydrochloride of 8-cyano-1-cyclopropyl-7-(1S,6S-2,8-diazabicyclo[4.3.0]nonan-8-yl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
 INVENTOR(S): Himmeler, Thomas; Rast, Hubert
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

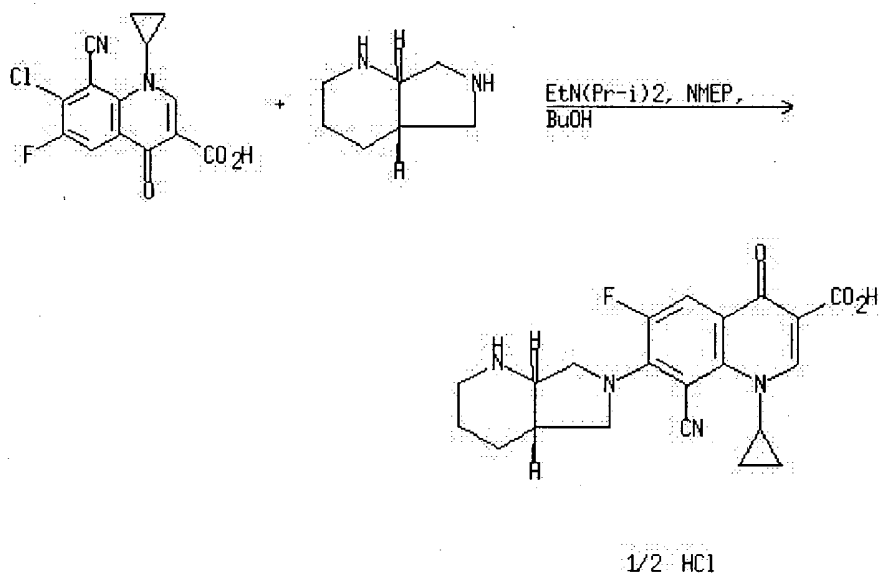
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19854357	A1	20000531	DE 1998-19854357	19981125
CA 2351714	AA	20000602	CA 1999-2351714	19991115
WO 2000031077	A1	20000602	WO 1999-EP8778	19991115
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 9915684	A	20010814	BR 1999-15684	19991115
EP 1133495	A1	20010919	EP 1999-955995	19991115
EP 1133495	B1	20021009		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101443	T2	20010921	TR 2001-200101443	19991115
JP 2002530408	T2	20020917	JP 2000-583905	19991115
AT 225790	E	20021015	AT 1999-955995	19991115
ES 2181488	T3	20030216	ES 1999-955995	19991115
PT 1133495	T	20030228	PT 1999-955995	19991115
AU 759769	B2	20030501	AU 2000-12716	19991115
NZ 511863	A	20030530	NZ 1999-511863	19991115
NO 2001002532	A	20010702	NO 2001-2532	20010523
PRIORITY APPLN. INFO.:			DE 1998-19854357	19981125
			WO 1999-EP8778	19991115

GI

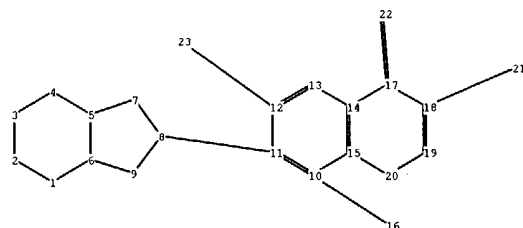
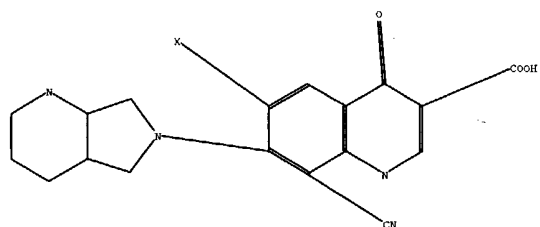


AB The title compd. (I), useful as a medical and veterinary bactericide, shows good water soly. (19 wt.%). I is produced by reaction of 7-halo-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid with (1S,6S)-2,8-diazabicyclo[4.3.0]nonane in the presence of a base in one of the following diluents: (a) a C₂₄ aliph. alc., (b) a mixt. of a C₃ alc. with the polar aprotic diluent, N-methylpyrrolidone; (c) a mixt. of n-PrOH with DMF. I (m. 278-280°) is characterized by its powder x-ray diffractogram, differential thermogram, and IR spectrum.

RX(1) OF 1



=>



chain nodes :

16 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20

chain bonds :

8-11 10-16 12-23 17-22 18-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-17 15-20 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-9 8-11 14-17 15-20 17-18 17-22 18-19 19-20

exact bonds :

5-7 6-9 10-16 12-23 18-21

normalized bonds :

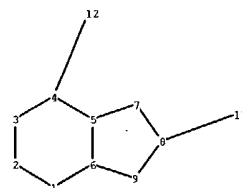
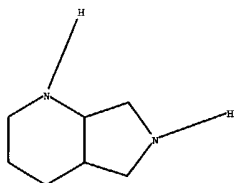
10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:CLASS 22:CLASS 23:CLASS



chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-12 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-9

exact bonds :

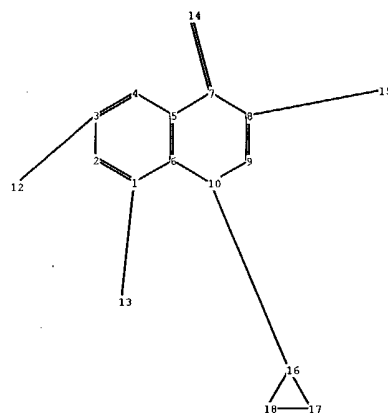
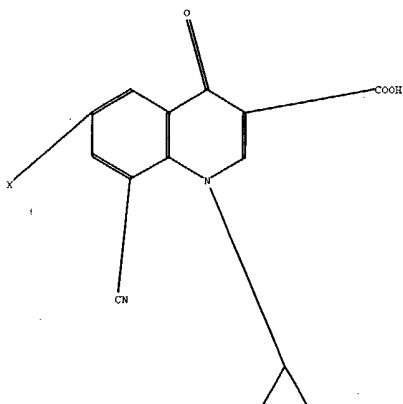
4-12 5-7 6-9 8-11

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS



chain nodes :

12 13 14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 16 17 18

chain bonds :

1-13 3-12 7-14 8-15 10-16

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 16-17 16-18 17-18

exact/norm bonds :

5-7 6-10 7-8 7-14 8-9 9-10 10-16 16-17 16-18 17-18

exact bonds :

1-13 3-12 8-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:CLASS
13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 12 BEILSTEIN enhanced with new display and select options,
 resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
 fields
NEWS 5 AUG 02 CAplus and CA patent records enhanced with European and Japan
 Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!
 (Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
 status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
 STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 27 STANDARDS will no longer be available on STN
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN
NEWS 14 OCT 28 KOREAPAT now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 22:56:26 ON 07 NOV 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

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STRUCTURE FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5
 DICTIONARY FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

h eb c g cg b cg

eb

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 22:58:14 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 2 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 6 TO 266
 PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 22:58:18 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 23 ANSWERS
 SEARCH TIME: 00.00.01

L3 23 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	156.26	156.47

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004
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FILE COVERS 1907 - 7 Nov 2004 VOL 141 ISS 20
FILE LAST UPDATED: 6 Nov 2004 (20041106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 22:56:26 ON 07 NOV 2004)

FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004

=> s l3

L4 12 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.36	158.83

FILE 'REGISTRY' ENTERED AT 22:58:25 ON 07 NOV 2004

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STRUCTURE FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

DICTIONARY FILE UPDATES: 5 NOV 2004 HIGHEST RN 775356-23-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

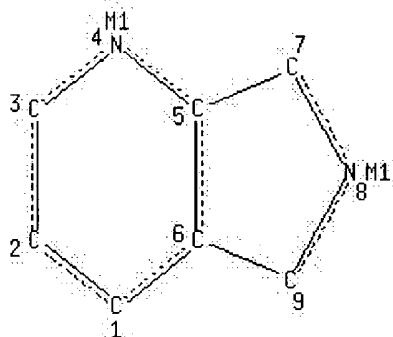
=>

L5 STRUCTURE UPLOADED

=> d l5

L5 HAS NO ANSWERS

L5 STR



NODE ATTRIBUTES:

HCOUNT	IS M1	AT	4
HCOUNT	IS M1	AT	8
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS R	AT	7
NSPEC	IS R	AT	8
NSPEC	IS R	AT	9

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

=> s 15

SAMPLE SEARCH INITIATED 22:59:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7119 TO ITERATE

14.0% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 137323 TO 147437
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 22:59:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 142269 TO ITERATE

100.0% PROCESSED 142269 ITERATIONS 19 ANSWERS
SEARCH TIME: 00.00.01

L7 19 SEA SSS FUL L5

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
156.26	315.09

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 22:59:56 ON 07 NOV 2004
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FILE COVERS 1907 - 7 Nov 2004 VOL 141 ISS 20
FILE LAST UPDATED: 6 Nov 2004 (20041106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7/rct
36 L7
2674061 RCT/RL
L8 31 L7/RCT
(L7 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 22:56:26 ON 07 NOV 2004)

FILE 'REGISTRY' ENTERED AT 22:56:32 ON 07 NOV 2004

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 23 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 22:58:20 ON 07 NOV 2004

L4 12 S L3

FILE 'REGISTRY' ENTERED AT 22:58:25 ON 07 NOV 2004

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 19 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 22:59:56 ON 07 NOV 2004

L8 31 S L7/RCT

=> s l3/prep
12 L3
3219792 PREP/RL
L9 4 L3/PREP
(L3 (L) PREP/RL)